

AMENDMENTS TO THE CLAIMS:

Claims 1-59 (Cancelled).

Claim 60 (Previously presented). A process for the preparation of a transgenic plant, which process comprises:

- (i) transforming a plant cell with a chimeric gene comprising (a) a promoter that directs gene expression in a plant, said promoter being operably linked to (b) a coding sequence which encodes for phosphofructokinase; and
- (ii) regenerating a plant from the transformed plant cell; wherein expression of said chimeric gene in said regenerated plant causes a modification of the amount of a metabolic intermediate:
 - (a) in the pre-existing intracellular pathway of glycolysis,
 - (b) in the pre-existing intracellular pathway for the synthesis or degradation of starch, or
 - (c) in the pre-existing intracellular pathway for the synthesis or degradation of sucrose or reducing sugar.

Claim 61 (Previously presented). The process of claim 60, wherein said chimeric gene also comprises a coding sequence encoding a second enzyme.

Claim 62 (Previously presented). The process of claim 60, wherein said chimeric gene is expressed in a tuber of said regenerated plant.

Claim 63 (Previously presented). The process of claim 60, wherein said chimeric gene is expressed in a seed of said regenerated plant.

Claim 64 (Previously presented). The process of claim 60, wherein the coding sequence is from a plant gene.

Claim 65 (Previously presented). The method of claim 60, wherein the coding sequence is from a non-plant gene.

Claim 66 (Previously presented). A transgenic plant comprising a chimeric gene which comprises:

- (a) a promoter that directs gene expression in a plant, said promoter being operably linked to
- (b) a coding sequence which encodes phosphofructokinase, wherein expression of chimeric gene in said transgenic plant causes a modification of the amount of a metabolic intermediate:
 - (i) in the pre-existing intracellular pathway of glycolysis,

- (ii) in the pre-existing intracellular pathway for the synthesis or degradation of starch, or
- (iii) in the pre-existing intracellular pathway for the synthesis or degradation of sucrose or reducing sugar.

Claim 67 (Previously presented). The transgenic plant of claim 66, wherein the chimeric gene also comprises a coding sequence that encodes a second enzyme.

Claims 68-96 (Cancelled).